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WEEKLY SUMMARY REPORT
USEPA OVERSIGHT, SAUGET AREA 2, SAUGET, ILLINOIS
WA NO. 123-RSBD-05XX/ CONTRACT NO. 68-W6-0025

WEEK ENDING WEDNESDAY, July 5, 2002

DATES OF CH2M HILL OVERSIGHT:

CH2M HILL provided field oversight of URS activities at Sauget Area 2 sites from July 1 through July 3, 2002.

WORK PERFORMED THIS WEEK:

URS and Roberts Environmental Drilling (Roberts) of Millstadt, Illinois, conducted alluvial aquifer sampling at Site S. Groundwater samples were collected in ten-foot intervals. All samples will be analyzed for VOCs and SVOCs. Additionally, unfiltered samples from every 40-foot interval will be analyzed for pesticides, herbicides, PCBs, and metals. Unfiltered samples from the top, middle and bottom of the saturated zone will be analyzed for dioxin.

Prosonic Corporation (Prosonic) of Marietta, Ohio, installed one bedrock monitoring well at Site O and started the drilling of the bedrock monitoring well at Site R.

URS and Roberts began waste characterization borings at Sites O, P, and S, using one of the geoprobe rigs. No surface soil sample was collected from the waste borings this week. Because of the insufficient sample volume from the samplers, two bore holes were required to collect both composite waste and subsurface soil samples for each proposed waste characterization borings. The two borings were usually within one to two feet of each another at the proposed waste characterization boring locations. Both composite waste and subsurface soil samples will be analyzed for VOCs, SVOCs, pesticides, herbicides, PCBs, metals, and dioxin. In addition, a portion of the composite waste sample from above the water table will be extracted using TCLP procedures and analyzed for the same suite of analytes.

In general, the field methodologies follows those specified in the Support Sampling Plan. Site specific details are described as follows:

Site S:

Alluvial aquifer sampling point AA-S-03 was advanced from 64 feet below ground surface (ft bgs) to 132 ft bgs at which bedrock was encountered.

Roberts/URS advanced waste characterization borings Waste-S-01 and Waste-S-02. Waste-S-01 was advanced to 16 ft bgs. The bottom of waste material was encountered at 10 ft bgs. Waste-S-02 was advanced to 12 ft bgs. The bottom of waste material was encountered at 7 ft bgs.

Site O:

Prosonic/URS mobilized and started the drilling at a bedrock well location BDRK-O-01.

Bedrock was encountered at 125 ft bgs. An eight-inch casing was driven five feet into bedrock to 130 ft bgs. A three-foot bentonite plug (consisting of hydrated bentonite pellets) was installed from 127 ft to 130 ft bgs. A two-inch PVC well riser with a 5-foot screen was placed in the boring at a depth of 150 ft bgs. Sand filter pack was installed from 150 ft bgs to 142 ft bgs. Bentonite seal was installed from 142 ft bgs to 139 ft bgs. Cement/bentonite grout was tremied from 139 ft bgs to the ground surface where the riser was cut off a couple feet above ground surface, capped with a sealing cap, and locked. An empty 55-gallon drum was placed over the riser as protection until the surface completion is constructed..

Roberts/URS advanced waste characterization borings Waste-O-01, Waste-O-02, and Waste-O-03. Waste-O-01 was advanced to 20 ft bgs. The bottom of waste material was encountered at 15 ft bgs. Waste-O-02 was advanced to 20 ft bgs. The bottom of waste material was encountered at 11 ft bgs. Waste-O-03 was advanced to 20 ft bgs. The bottom of waste material was encountered at 10 ft bgs.

Site P:

Roberts/URS attempted to advance waste characterization borings Waste-P-01 and Waste-P-02. However, refusal was encountered before the bottom of waste material was found at both locations even after attempting to offset each boring several times. John Regan is assessing the feasibility of alternate drilling methods to advance waste borings in Sites P and Q.

Site R:

Prosonic/URS mobilized and started the drilling of a bedrock well BDRK-R-01. Elevated PID readings were noticed during drilling through the alluvial sands. Bedrock was encountered at 135 ft bgs. Because Prosonic was planning to demobilize from the site for the rest of the week, the driving head was threaded onto the casing over the holiday weekend to seal off the casing to the outside elements. The well will be installed next Monday.

ISSUES OR PROBLEMS ENCOUNTERED:

Sandy Bron (IEPA) raised an issue regarding the sample collection methodology of the waste composite samples at waste characterization borings. She was concerned that the waste composite samples were being "diluted" by soils in the upper several feet of the borings that may not be impacted. A tentative consensus was reached between CH2M HILL, URS, and Sandy that soils in the upper several feet of a boring would not be included in the waste composite sample if there were no elevated PID reading and no observed impact (as stated in the Sampling Plan). John Regan could not officially agree until he could speak with the PRP group.

URS encountered refusal at two waste characterization borings in Site P using a geoprobe rig. An attempt was made to offset three times, however, refusal was still encountered. John Regan is assessing the feasibility of alternate drilling methods to advance waste borings at Sites P and Q.

WORK SCHEDULED FOR NEXT WEEK:

One geoprobe rig will continue to collect alluvial aquifer samples at Site S.

URS will continue waste characterization borings when a decision is reached as to what drilling method will be used to advance the borings at Sites P and Q.

Prosonic will continue to install bedrock monitoring wells.

Prosonic will mobilize a second rig to Area 2 to begin piezometer installation.